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PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. 13312/116
First Inventor Wayne Theel
Title METHOD FOR OPTIMIZING MRAM CIRCUIT PERFORMANCE
Express Mail Label No. EL 985895939 US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 23]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross References to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the invention
 - Brief Summary of the invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 9]
5. Oath or Declaration [Total Pages 1]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for a continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATIONS PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 C.F.R. §3.73(b) Statement [Power of Attorney] (when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 [Copies of IDS Citations]
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No: ____ / ____

Prior application information: Examiner ____

Group / Art Unit: ____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

Name Alan D. Kamrath
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Country USA Telephone (612) 340-8925 Fax (612) 340-7900

Name (Print/Type) Alan D. Kamrath Registration No. (Attorney/Agent) 28,227
Signature [Signature] Date November 30, 2003

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22278 U.S.P.T.O.
10/724984





18351 U.S. PTO

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PTO/SB/17 (10-01)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE**FEE TRANSMITTAL
for FY 2002**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$) 385.00**Complete if Known**

| | |
|----------------------|-------------------|
| Application Number | |
| Filing Date | November 30, 2003 |
| First Named Inventor | Wayne Theel |
| Examiner Name | |
| Group / Art Unit | |
| Attorney Docket No. | 13312/116 |

| | | | | | | | |
|---|--|--|--|--------------------------------------|--|--|--|
| METHOD OF PAYMENT (check one) | | | | FEE CALCULATION (continued) | | | |
| 1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: | | | | 3. ADDITIONAL FEES | | | |
| Deposit Account Number: 50-1188 | | | | Large Entity Fee Code Fee (\$) | | | |
| Deposit Account Name: Rider, Bennett, Egan & Arundel, LLP | | | | Small Entity Fee Code Fee (\$) | | | |
| <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 | | | | Fee Description | | | |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27 | | | | Fee Paid | | | |
| 2. <input type="checkbox"/> Payment Enclosed: | | | | | | | |
| <input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other | | | | | | | |
| FEE CALCULATION | | | | | | | |
| 1. BASIC FILING FEE | | | | | | | |
| Large Entity Fee Code Fee (\$) | | | | | | | |
| Small Entity Fee Code Fee (\$) | | | | | | | |
| Fee Description | | | | | | | |
| Fee Paid | | | | | | | |
| 101 770 201 385 Utility filing fee | | | | 385 | | | |
| 106 340 206 170 Design filing fee | | | | | | | |
| 107 530 207 265 Plant filing fee | | | | | | | |
| 108 770 208 385 Reissue filing fee | | | | | | | |
| 114 160 214 80 Provisional filing fee | | | | | | | |
| SUBTOTAL (1) | | | | (\$) 385.00 | | | |
| 2. EXTRA CLAIM FEES | | | | | | | |
| Total Claims 20 -20 ** = 0 | | | | Extra Claims Fee from below Fee Paid | | | |
| Independent Claims 3 -3 ** = 0 | | | | 0 0 0 | | | |
| Multiple Dependent | | | | 0 0 0 | | | |
| Large Entity Fee Code Fee (\$) | | | | | | | |
| Small Entity Fee Code Fee (\$) | | | | | | | |
| Fee Description | | | | | | | |
| 103 18 203 9 Claims in excess of 20 | | | | | | | |
| 102 86 202 43 Independent claims in excess of 3 | | | | | | | |
| 104 290 204 145 Multiple dependent claim, if not paid | | | | | | | |
| 109 86 209 43 ** Reissue independent claims over original patent | | | | | | | |
| 110 18 210 9 ** Reissue claims in excess of 20 and over original patent | | | | | | | |
| SUBTOTAL (2) | | | | (\$) 0 | | | |
| **or number previously paid, if greater; For Reissues, see above | | | | | | | |
| | | | | Other fee (specify) _____ | | | |
| | | | | *Reduced by Basic Filing Fee Paid | | | |
| | | | | SUBTOTAL (3) | | | |
| | | | | (\$) | | | |

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|---------------------|-----------------|---------------------------------|--------|---------------------------------|-------------------|
| SUBMITTED BY | | | | Complete (if applicable) | |
| Name (Print/Type) | Alan D. Kamrath | Registration No. Attorney/Agent | 28,227 | Telephone | 612/340-8925 |
| Signature | | | | Date | November 30, 2003 |

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